

University of Maryland Center for Environmental Science



Guiding our state, nation, and world toward a
more sustainable future.



From the banks of the Patuxent...



... Reginald V. Truitt established the Chesapeake Biological Laboratory in 1925.

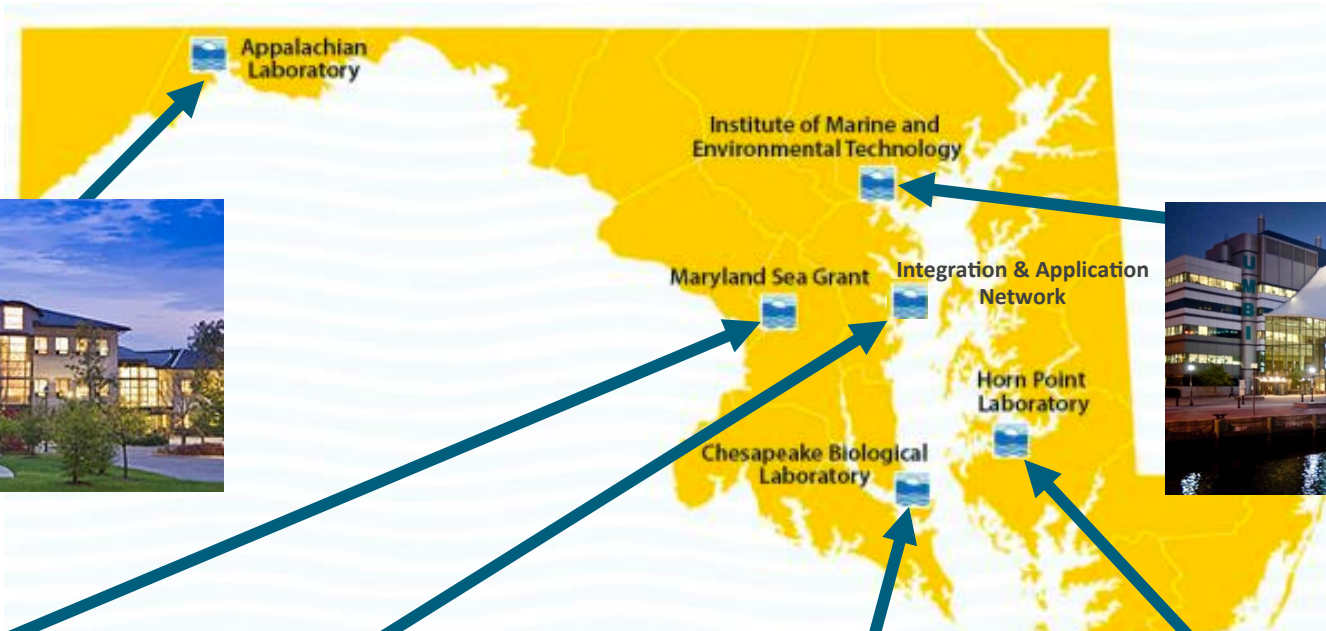


A venerable member of the USM

- 1807 – University of Maryland, Baltimore
- 1856 – University of Maryland, College Park
- 1865 – Bowie State University
- 1866 – Towson University
- 1886 – University of Maryland Eastern Shore
- 1898 – Frostburg State University
- 1900 – Coppin State University
- **1925 – University of Maryland Center for Environmental Science**
- 1925 – University of Baltimore
- 1925 – Salisbury University
- 1947 – University of Maryland University College
- 1966 – University of Maryland Baltimore County



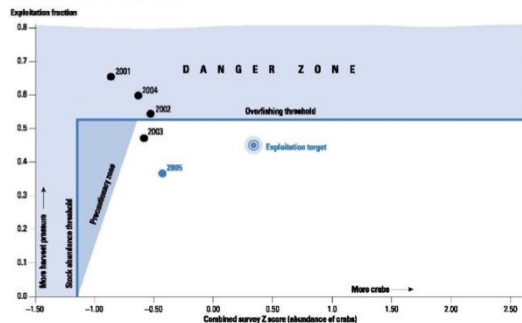
UMCES is strategically located



Leading sustainable blue crab management



FIGURE 2
Baywide Fishing Pressure Since Adoption of the 2001 BBCAC Action Plan
SOURCE: 2010-2014 Blue Crab Technical Advisory Committee



SEARCHING FOR BALANCE. In 2005, after years of effort, harvest pressure dropped below the exploitation target, yet the stock size remains too low. The bullseye depicts the desired balance between crab abundance and harvest pressure.



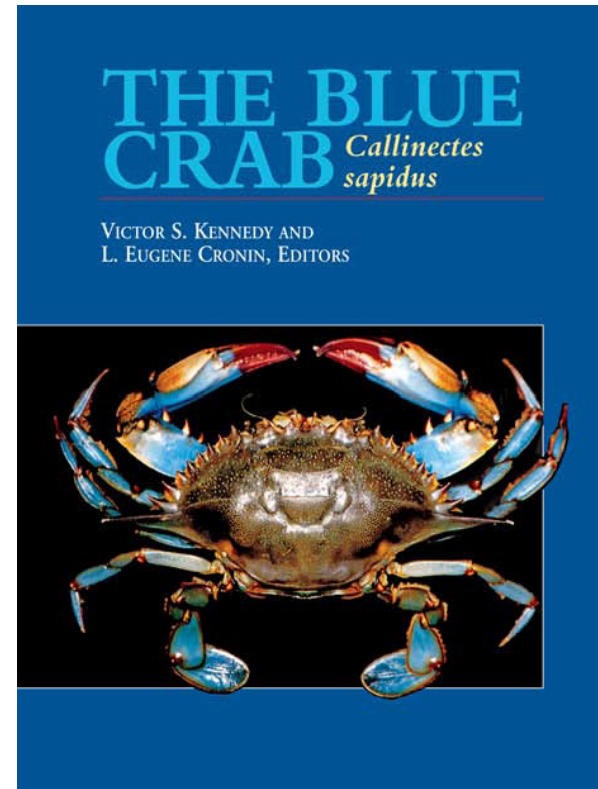
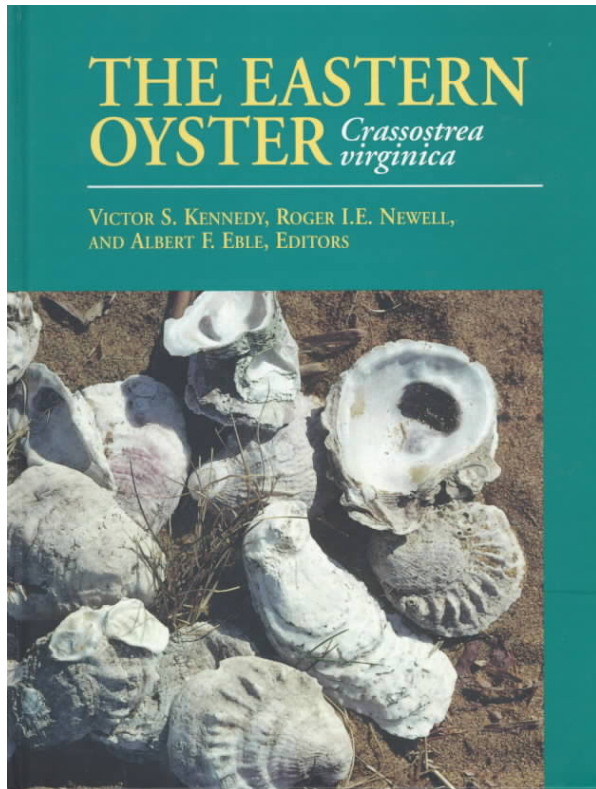
Dr. Thomas
Miller



University of Maryland
CENTER FOR ENVIRONMENTAL SCIENCE

General Overview October, 2017

“Writing the book” on key Bay species



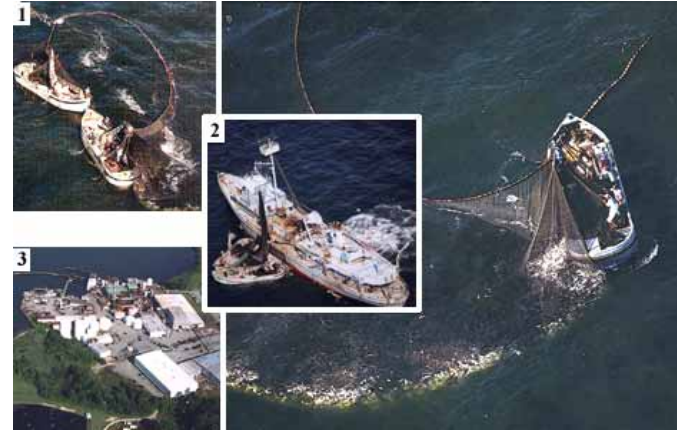
Published by Maryland Sea Grant



Addressing the challenge of oyster restoration



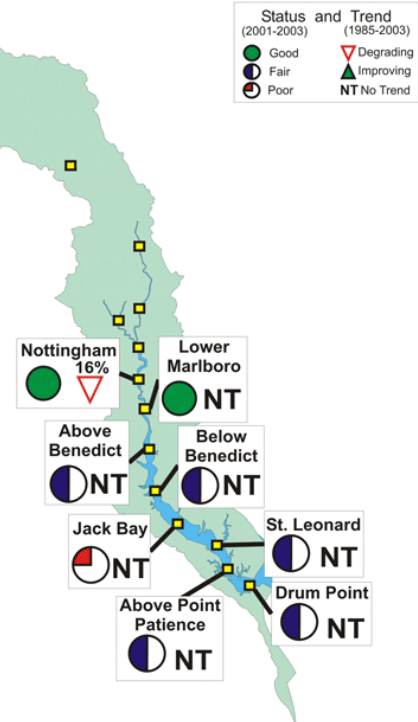
Toward ecosystem-based management



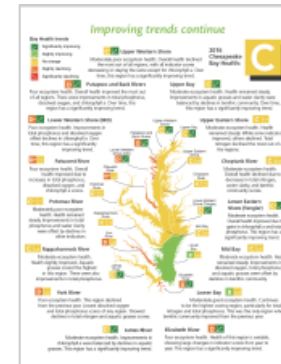
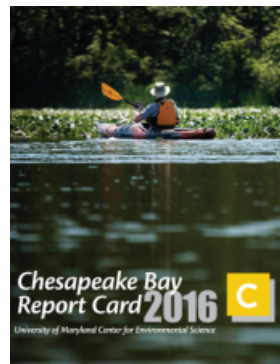
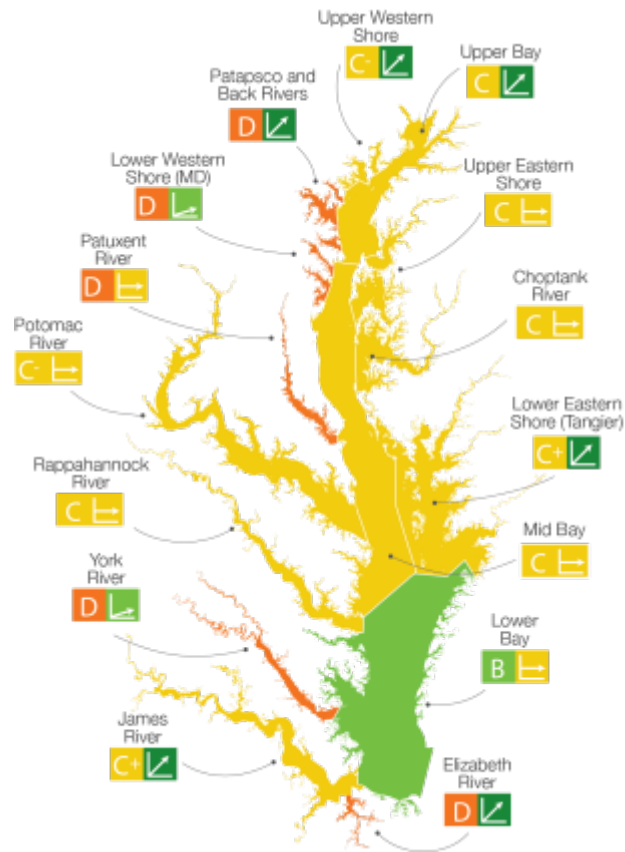
Restoring water quality from streams to the Bay



Summer Bottom Dissolved Oxygen: Patuxent River



Assessing Chesapeake Bay health



Ensuring safe harbors



Maritime Environmental Resource Center



Dr. Mario Tamburri



Research spanning the globe



Dr. David Secor



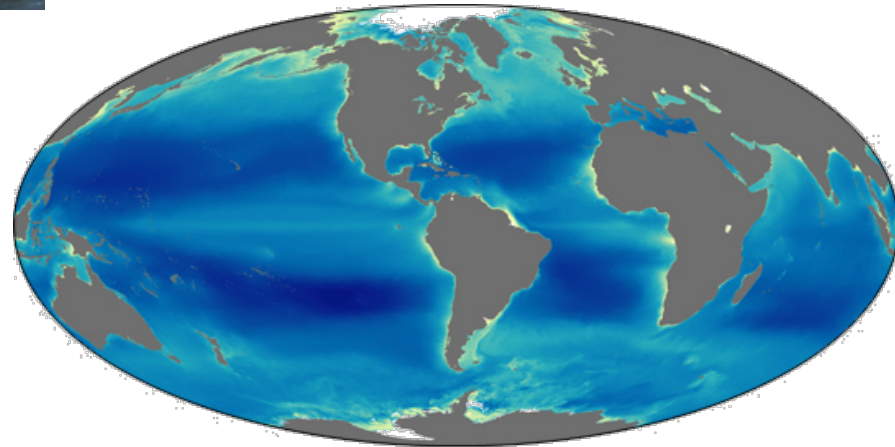
Atlantic Bluefin Tuna populations



Research spanning the globe



Dr. Lee Cooper
Arctic Ocean biogeochemistry



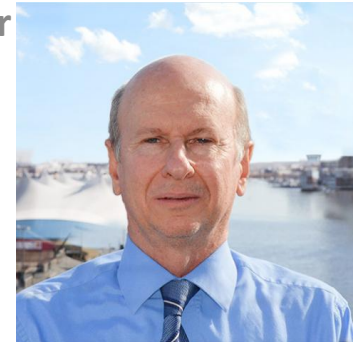
UMCES Researchers as Presidents of Professional Associations



Dr. Margaret Palmer



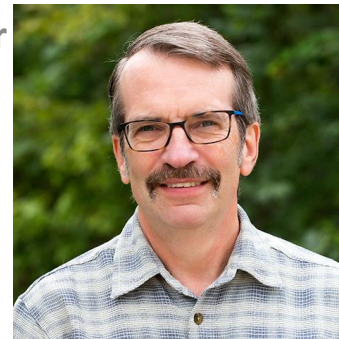
Dr. Fredrika Moser



Dr. Russell Hill



Dr. Peter Goodwin



Dr. Eric Davidson



Extending lessons from the Chesapeake



Understanding consequences of climate change

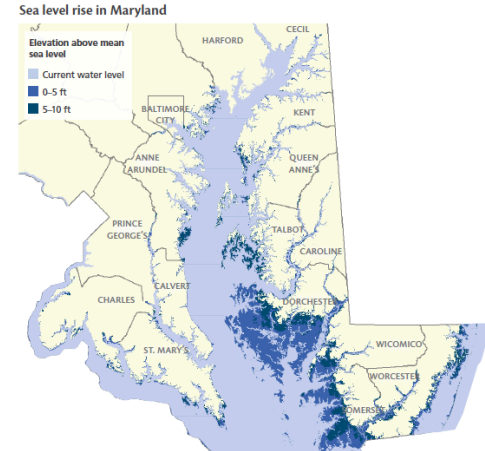
Increasing temperature at CBL pier



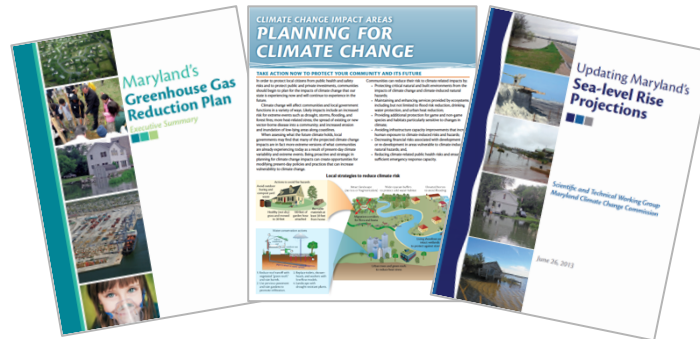
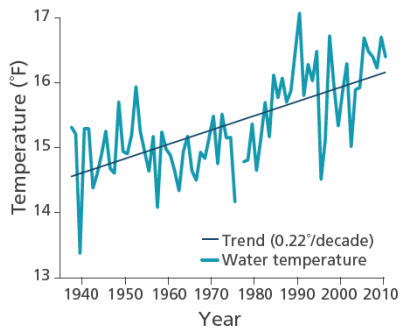
Annapolis flooding



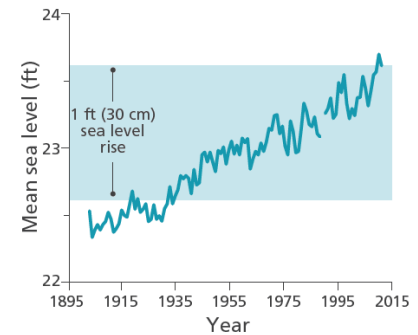
Sea level rise



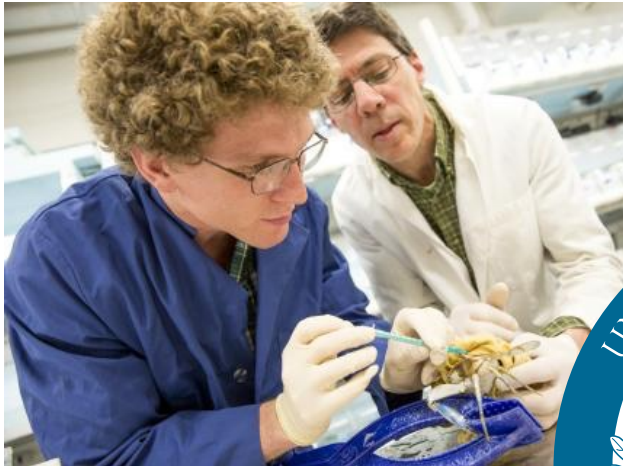
Water temperature - Solomons, MD



Mean sea level - Baltimore, MD



Investing in future scientists




Supporting education of future environmental leaders



Investing in new research capabilities



A sunset over a body of water. The sky is filled with dark, dramatic clouds, some of which are illuminated from below by the setting sun, creating a vibrant orange and red glow. The water in the foreground is calm, reflecting the colors of the sky. In the distance, a low horizon line is visible, and a single wooden post stands in the water on the right side.

At times of change, the learners will be the ones who will inherit the world, while the knowers will be beautifully prepared for a world that no longer exists.

Alastair Smith

Thank you for your attention.